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## <u>AMENDMENTS TO THE CLAIMS</u>

Claims 1-23 (Cancelled)

- 24. (New) A method of determining whether an individual is or has been infected with Neisseria gonorrhoeae, said method including the step of using one or more oligonucleotides to detect said isolated porA nucleic acid of Neisseria gonorrhoeae, if present in a biological sample obtained from said individual, a presence of said porA nucleic acid indicating that said individual is or has been infected with Neisseria gonorrhoeae, wherein said one or more oligonucleotides are not capable of hybridizing to a porA nucleic acid of Neisseria meningitidis sufficiently to enable detection of said porA nucleic acid of Neisseria meningitidis if present in said biological sample.
- 25. (New) The method of claim 24, wherein said method includes the step of distinguishing said isolated porA nucleic acid of *Neisseria gonorrhoeae* from a porA nucleic of *Neisseria meningitidis* present in said biological sample.
- 26. (New) The method of claim 25, wherein said porA nucleic acid of *Neisseria* gonorrhoeae is distinguished from another Neisseria species other than *N. meningitidis*.
- 27. (New) The method of claim 24, including the step of subjecting the biological sample to nucleic acid sequence amplification under conditions which facilitate amplification of said isolated porA nucleic acid of *Neisseria gonorrhoeae* to produce an amplification product.
- 28. (New) The method of claim 27, wherein the amplification product corresponds to a fragment of a *Neisseria gonorrhoeae* porA pseudogene.
- 29. (New) The method of claim 28, wherein nucleic acid sequence amplification is performed under conditions which facilitate amplification of

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said isolated por Anucleic acid of *Neisseria gonorrhoeae* to a detectable level but which do not facilitate amplification of said por Anucleic of *N. meningitidis* to a detectable level.

- 30. (New) The method of claim 29, wherein nucleic acid sequence amplification is performed using one or more PCR primers having a nucleotide sequence selected from the group consisting of SEQ ID NO:1 and SEQ ID NO:2.
- 31. (New) The method of claim 27, wherein said one or more oligonucleotides comprise a probe for detecting said amplification product by probe hybridization.
- 32. (New) The method of claim 31, wherein the probe is has a nucleotide sequence selected from the group consisting of SEQ ID NO:3; SEQ ID NO:4; SEQ ID NO:5; SEQ ID NO:6; SEQ ID NO:7; SEQ ID NO:8; SEQ ID NO:9.
- 33. (New) The method of claim 32, wherein the probe is has a nucleotide sequence selected from the group consisting of SEQ ID NO:3 and SEQ ID NO:4.
- 34. (New) The method of claim 31, wherein detection of said amplification product is performed using fluorescence resonance energy transfer (FRET).
- 35. (New) A method of determining whether a human individual is or has been infected with *Neisseria gonorrhoeae*, said method including the steps of:
- (i) subjecting a biological sample obtained from said human individual to nucleic acid sequence amplification using primers having respective nucleotide sequences according to SEQ ID NO:1 and SEQ ID NO:2, to produce a porA Neisseria gonorrhoeae amplification product from a Neisseria gonorrhoeae porA nucleic acid if present in said biological sample: and
- (ii) detecting said amplification product, if present, by probe hybridization and fluorescence resonance energy transfer (FRET) using oligonucleotides having respective nucleotide sequences according to SEQ ID NO:3 having a donor

fluorophore and SEQ ID NO:4 having an acceptor fluorophore, whereby a presence of said porA amplification product indicates that said individual is or has been infected with *Neisseria gonorrhoeae*.

- 36. (New) An oligonucleotide which is capable of hybridizing to a porA nucleic acid of Neisseria gonorrhoeae sufficiently to enable detection of said porA nucleic acid, but which is not capable of hybridizing to a porA nucleic acid of Neisseria meningitidis sufficiently to enable detection of said porA nucleic acid of Neisseria meningitidis.
- 37. (New) The oligonucleotide of claim 35, wherein said oligonucleotide is not capable, of hybridizing to a porA nucleic acid of another Neisseria species other than N. meningitidis.
- 38. (New) The oligonuclectide of claim 37 having a nucleotide sequence selected from the group consisting of SEQ ID NO:3; SEQ ID NO:4; SEQ ID NO:5; SEQ ID NO:6; SEQ ID NO:7; SEQ ID NO:8; SEQ ID NO:9.
- 39. (New) The oligonucleotide of claim 38 having a nucleotide sequence selected from the group consisting of SEQ ED NO:3 and SEQ ID NO:4.
- 40. (New) A kit for detecting a porA nucleic acid of *Neisseria gonorrhoeae*, said kit comprising one or more oligonucleotides according to claim 36 together with a DNA polymerase and/or one or more detection reagents.
- 41. (New) The kit of claim 40, wherein the one or more oligonucleotides have a nucleotide sequence selected from the group consisting of SEQ ID NO:3; SEQ ID NO:4; SEQ ID NO:5; SEQ ID NO:6; SEQ ID NO:7; SEQ ID NO:8; SEQ ID NO:9.

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42. (New) The kit of claim 41, wherein the one or more oligonucleotides have a nucleotide sequence selected from the group consisting of SEQ ID NO:3 and SEQ ID NO:4.

- 43. (New) The kit of claim 40, further comprising one or more primers that facilitate amplification of an *Neisseria gonorrhoeae*, porA nucleic acid.
- 44. (New) The kit of claim 43, wherein the one or more primers have a nucleotide sequence selected from the group consisting of SEQ 1D NO:1 and SEQ ID NO:2.
- 45. (New) A nucleic acid array comprising one or more oligonucleotides according to claim 36, immobilized, coupled, bound, impregnated or otherwise in communication with a substrate.
- 46. (New) The nucleic acid array of claim 45, wherein the one or more oligonucleotides have a nucleotide sequence selected from the group consisting of SEQ ID NO:3; SEQ ID NO:4; SEQ ID NO:5; SEQ ID NO:6; SEQ ID NO:7; SEQ ID NO:8; SEQ ID NO:9.
- 47. (New) The nucleic acid array of claim 46, wherein the one or more oligonucleotides have a nucleotide sequence selected from the group consisting of SEQ ID NO:3 and SEQ ID NO:4.